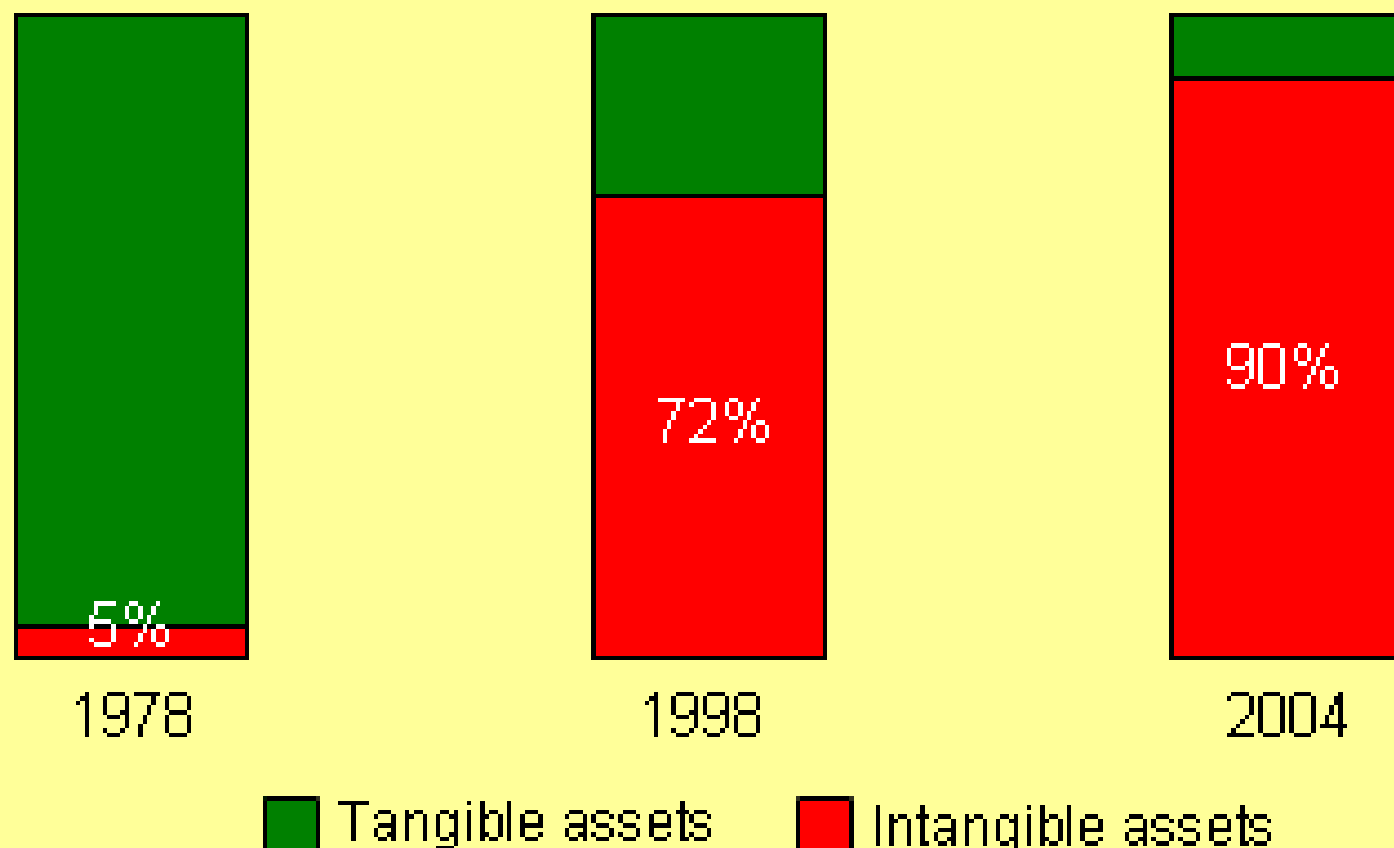




Intellectual Assets

Major Value Drivers of Business in the Modern Economy

Relative significance of intangible assets –
knowledge, know-how, business models, processes, people, etc. –
compared to their tangible peers in business





IN-DOE TA 2008



Effectively Scaling Up Innovations in Education

**Dean L. Fixsen, Karen A. Blase,
Michelle Duda, Sandra F. Naoom,
Melissa Van Dyke**

National Implementation Research Network
FPG Child Development Institute, UNC-Chapel Hill



NCLB Act & IDEA 2004

-  **Implementation of scientifically based research**
-  **Ensure that school personnel have the skills and knowledge necessary to improve the academic achievement and functional performance of children, including the use of scientifically based instructional practices, to the maximum extent possible**

Education

 **60 million kids**

 **6 million teachers and staff**

 **100,000 schools**

 **3,143 counties**



 **60 federal jurisdictions**

Key Issues

Four big issues have emerged:

- How to choose what to implement
- How to implement new education practices so they actually produce the intended benefits to students (effective)
- How to scale up effective practices so they are available to all students who could benefit from them (access)
- How to align system structures and functions to fully support scale up efforts as part of “education as usual” (sustainable)

Problem

- 
Too often, the choice of an intervention has little to do with the quality or weight of the evidence regarding practices
- 
Decisions are made for a variety of reasons not related to the data about effectiveness (e.g. philosophy, values, comfort, availability, finances)

Follow Through Programs

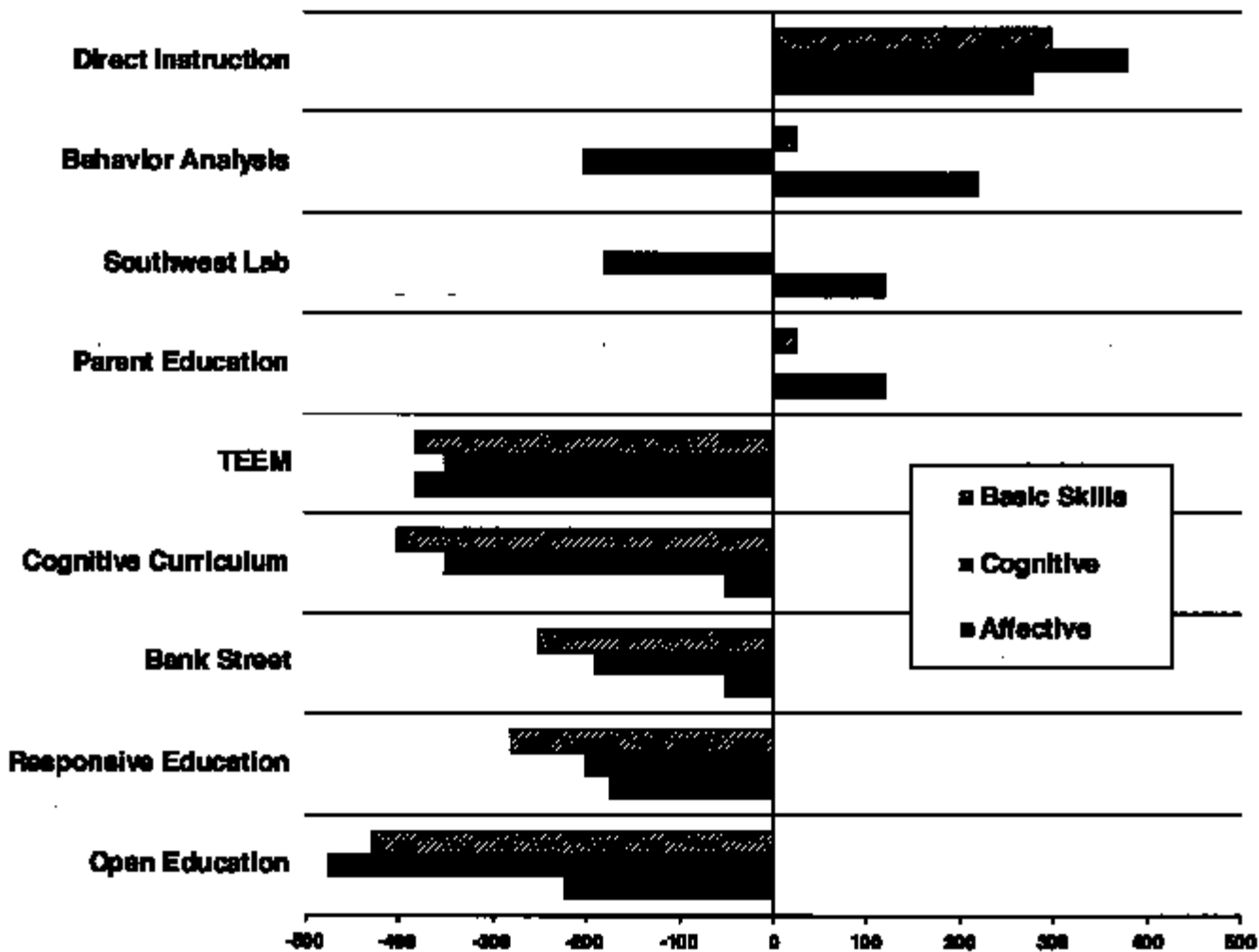





Figure 1: This figure shows the average effects of nine Follow Through models on measures of basic skills (word knowledge, spelling, language, and math computation), cognitive-conceptual skills (reading comprehension, math concepts, and math problem solving) and self-concept. This figure is adapted from Engelmann, S. and Carnine, D. (1982), *Theory of Instruction: Principles and applications*. New York: Irvington Press.

Intervention Science

Scientists have produced programs and practices that can help students, communities, and education systems

- **What Works Clearinghouse**
(<http://ies.ed.gov/ncee/wwc/>)
- **NREPP** (<http://www.nrepp.samhsa.gov/>)
- **Colorado Blueprints**
(<http://www.colorado.edu/cspv/index.html>)
- **Education research journals/ American Education Research Association** (<http://www.aera.net/>) **J. of Evidence-Based Practices in Schools**

Choose Interventions

-  **Effect size 0.50 or greater**
-  **Must be “worth the effort” to scale up**
-  **Eventually want to see big changes in student outcomes across the State**

Key Issues

Four big issues have emerged:

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Problem

 **Students cannot benefit from interventions they do not experience**

What Works

		IMPLEMENTATION	
		Effective	NOT Effective
INTERVENTION	Effective	Student Benefits	
	NOT Effective		

Implementation Science

- Human service prevention and treatment program literature (e.g. education, substance abuse, MH, justice, health)
- Literature re: advanced manufacturing technologies, business, management, agriculture, engineering
- Successful practices on a national scale (e.g. SW-PBS, SFA, MST, FFT, NFP, SE, IDDT, DBT, MI, PMTO, Incredible Years)

Implementation Science

Letting it happen

 Recipients are accountable

Helping it happen

 Recipients are accountable

Making it happen

 Implementation teams are accountable

Implementation Science

Excellent experimental evidence for what does not work

➡ **Diffusion/dissemination of information by itself does not lead to successful implementation (research literature, mailings, promulgation of practice guidelines)**

➡ **Training alone, no matter how well done, does not lead to successful implementation**

Implementation Science

Excellent evidence for what does not work

➤ Implementation by laws/ compliance by itself does not work

➤ Implementation by “following the money” by itself does not work

➤ Implementation without changing supporting roles and functions does not work

Paul Nutt (2002). *Why Decisions Fail*

Student Benefits



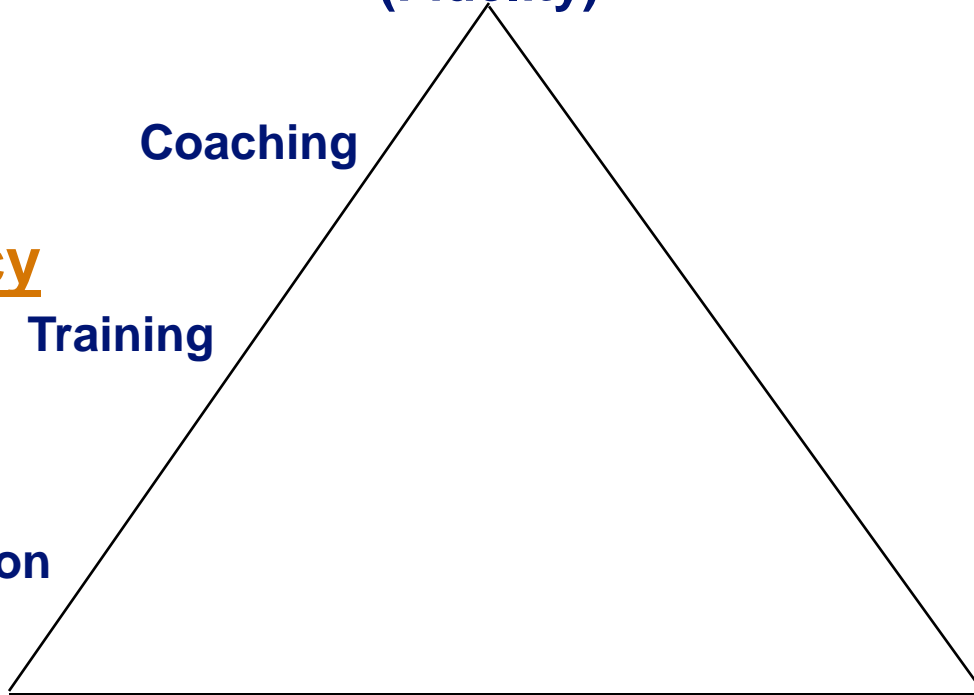
**Performance Assessment
(Fidelity)**

Coaching

Competency

Training

Selection



Student Benefits



**Performance Assessment
(Fidelity)**

Coaching

**Systems
Intervention**

Competency

Training

Organization

**Facilitative
Administration**

Selection

**Decision Support
Data System**

Student Benefits



Performance Assessment
(Fidelity)

Coaching

Systems
Intervention

Adaptive

Competency

Training

Organization

Facilitative
Administration

Selection

Decision Support
Data System

Technical

Leadership

Student Benefits



Performance Assessment
(Fidelity)

Coaching

Systems
Intervention

Adaptive

Competency

Training

Organization

Facilitative
Administration

**Integrated &
Compensatory**

Selection

Decision Support
Data System

Technical

Leadership

Student Benefits

Stages of Implementation

• Exploration

• Installation

• Initial Implementation

• Full Implementation

• Innovation

• Sustainability

Performance Assessment
(Fidelity)

Coaching

Systems
Intervention

2 – 4 Years

Innovation

Adaptive

Organization

Facilitative
Administration

Integrated &
Compensatory

Decision Support
Data System

Selection

Technical

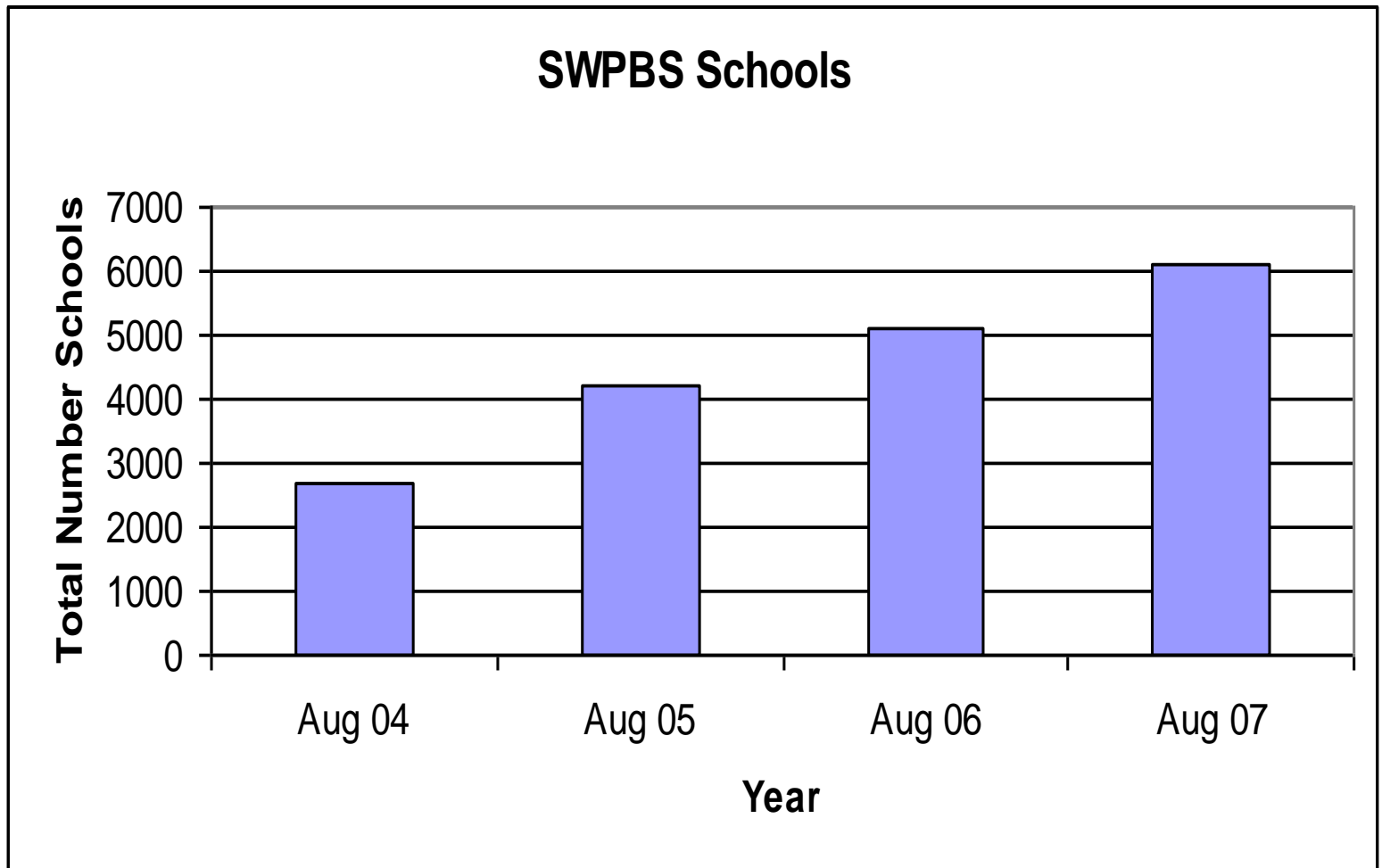
Leadership

Key Issues

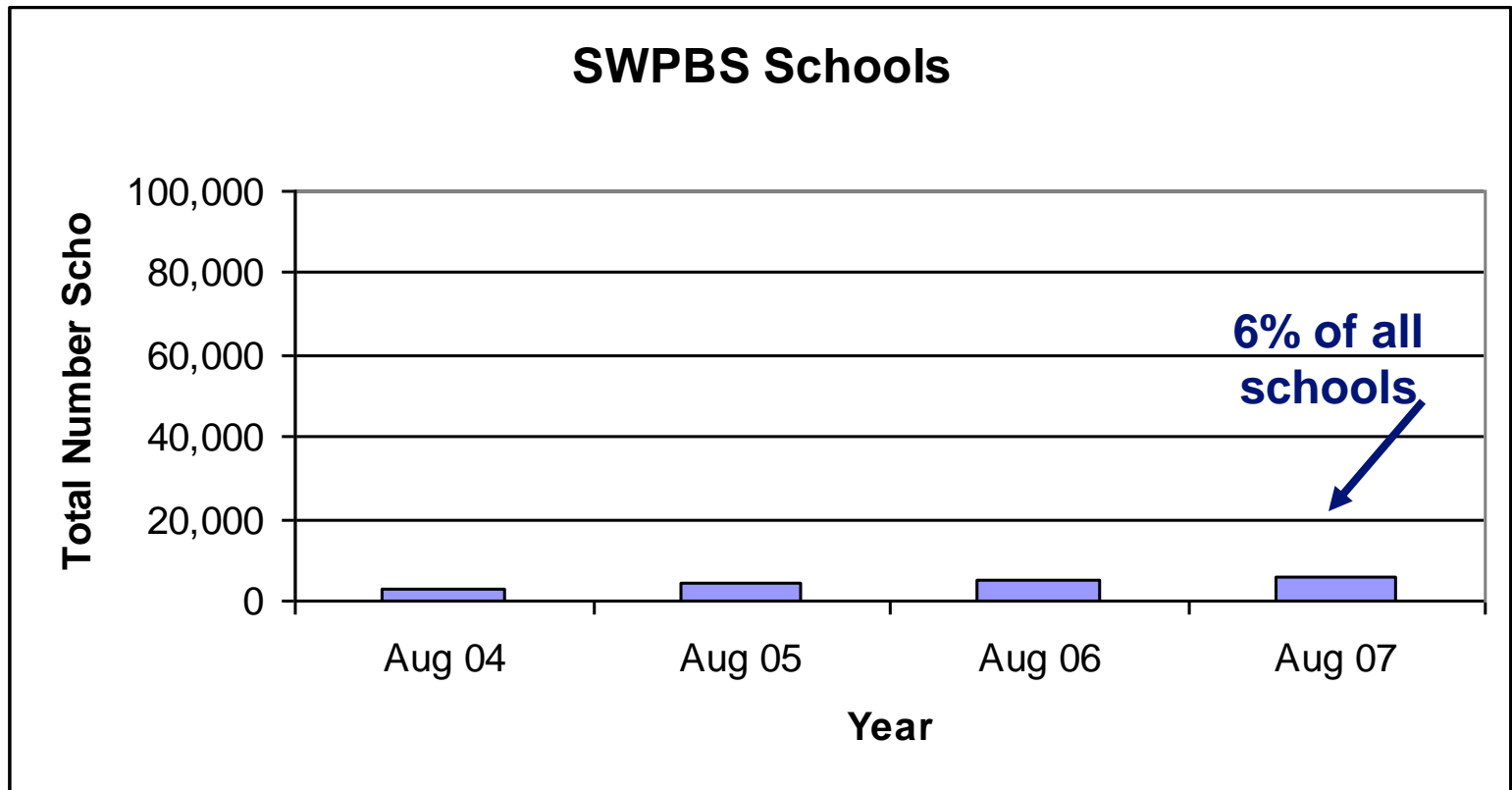
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School Wide PBS



School Wide PBS





Problem

- 
EBPs now are boutique operations
 - 
Now have convincing demonstrations that EBPs can work in the real world
 - 
Pretty neat but not used on a sustainable scale sufficient to solve social problems
- 
What will it take to make statewide use of education innovations that produce increasingly effective outcomes for the next 50 years?
 - 
Start with the end in mind




Scale Up

- To scale up interventions we must first scale up implementation capacity
- Building implementation capacity is essential to maximizing the use of EBPs and other innovations

Scale Up

-  **Interventions that are and remain effective through several generations of teachers, principals, superintendents, and state and national leaders**
-  **Implementation supports that are and remain effective through several generations of trainers, coaches, evaluators, administrators, and state leaders**

Scale Up

-  **Develop an infrastructure for implementation in each State (Implementation Teams)**
-  **To support the effective use of evidence-based programs and other innovations in schools and education systems**
-  **So teachers can better educate students each year for the next 50 years**

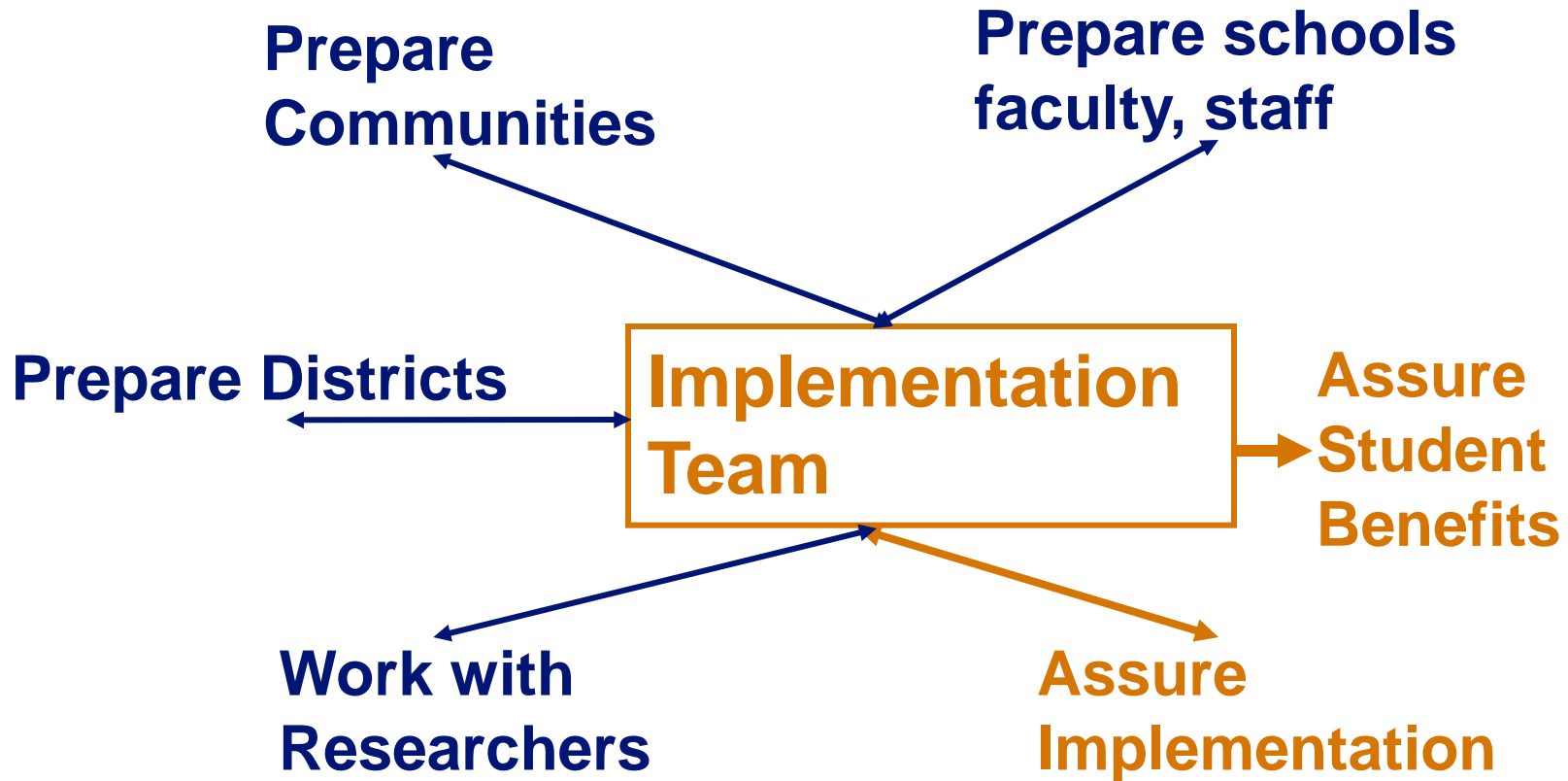
Implementation Team

➤ A group that knows the innovation very well (formal and practice knowledge)

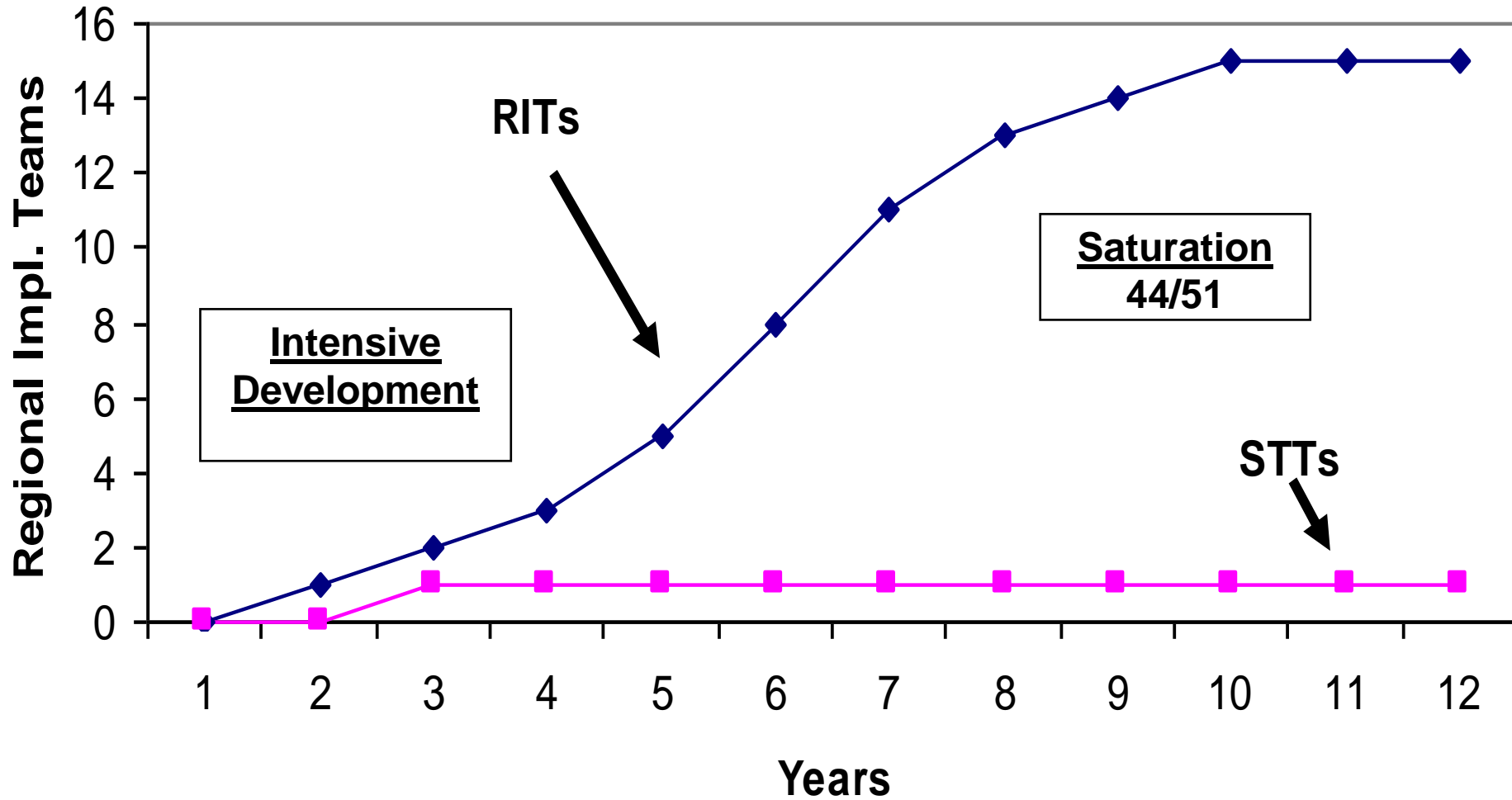
➤ A group that knows implementation very well (formal and practice knowledge)

➤ A group that knows improvement cycles to make intervention and implementation methods more effective and efficient over time

Implementation Team



State Capacity Development



Key Issues

Four big issues have emerged:

- How to choose what to implement
- How to implement new education practices so they actually produce the intended benefits to students (effective)
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- How to align system structures and functions to fully support scale up efforts as part of “education as usual” (sustainable)

Sobering Observations





"All organizations [and systems] are designed, intentionally or unwittingly, to achieve precisely the results they get."

**R. Spencer Darling
Business Expert**

"The tyranny of the status quo."

**Fritz Oser
Educator**

Problem

- 
Innovative practices do not fare well in existing organizational structures and systems
- 
Organizational and system changes are essential to successful use of innovations
 - 
Expect it
 - 
Plan for it

SISEP Center

**State Implementation and Scaling up of
Evidence-based Practices (SISEP)**

www.scalingup.org

“Just for States”

➤ **Selection criteria/ rationales**

“Resources”

➤ **Concept paper**

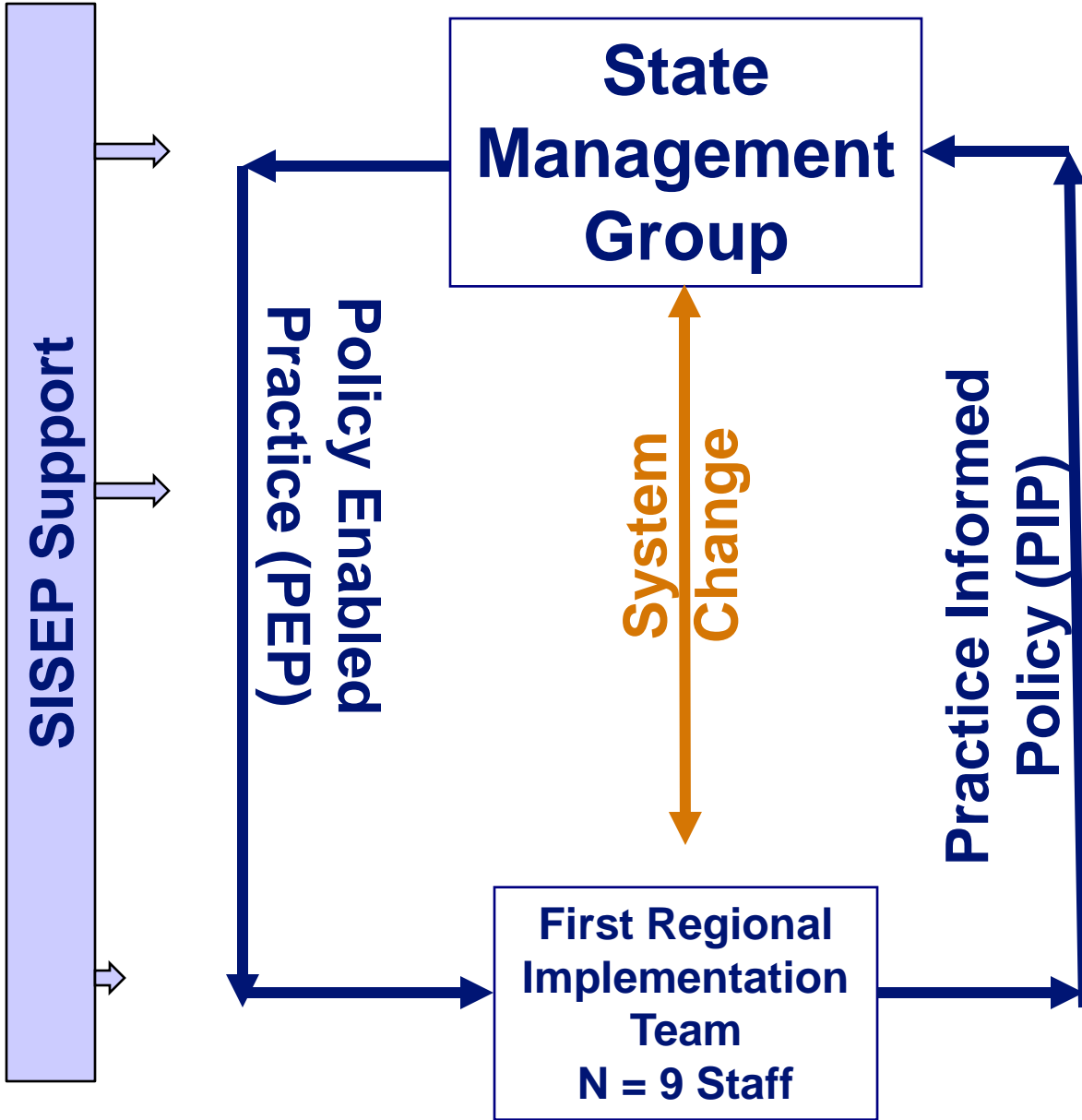
➤ **Annotated bibliography**

System Alignment

The SISEP Center

Four years of intensive and focused activity to create capacity and align system structures, roles, and functions

Large scale, real time change

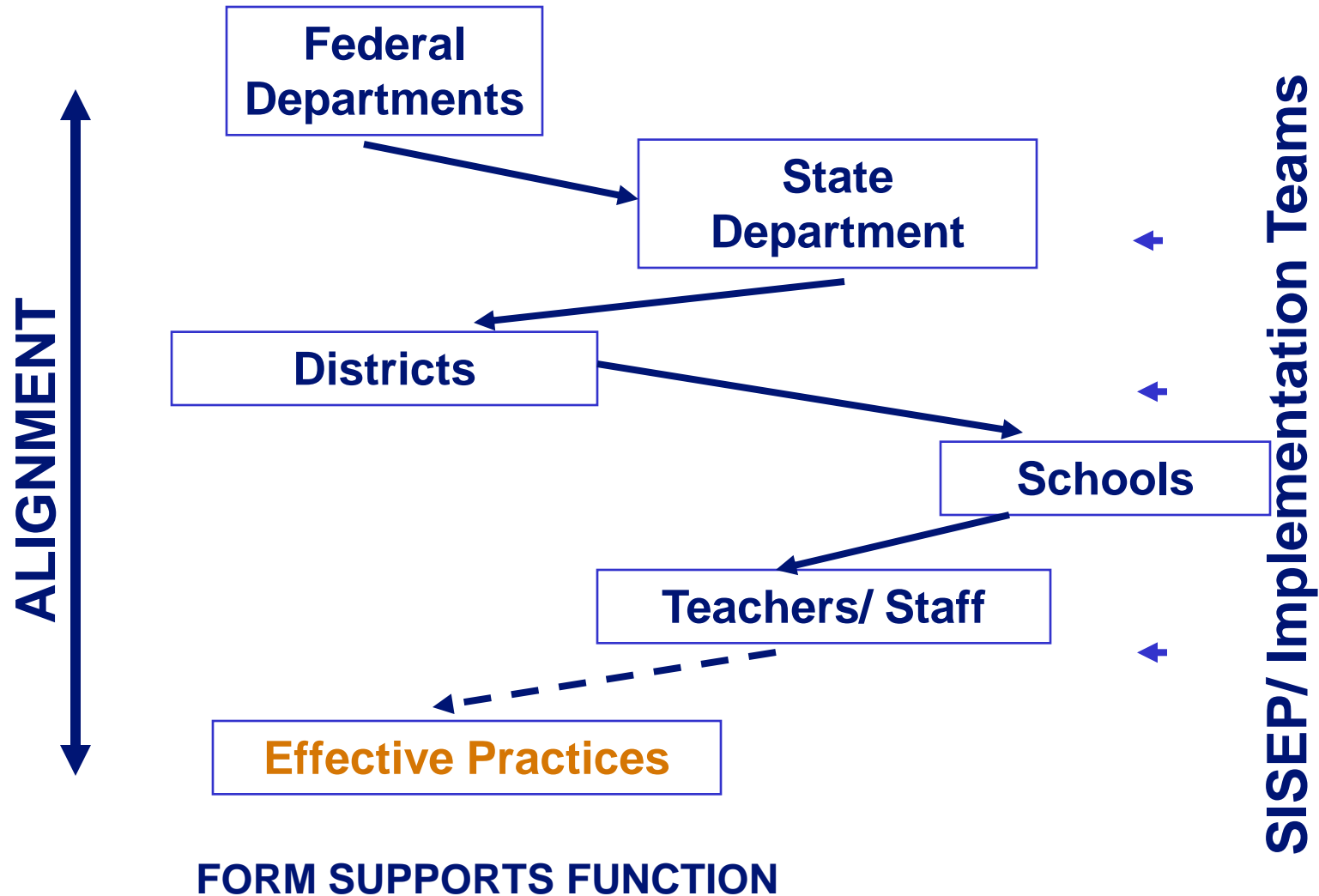


Transformation Zone

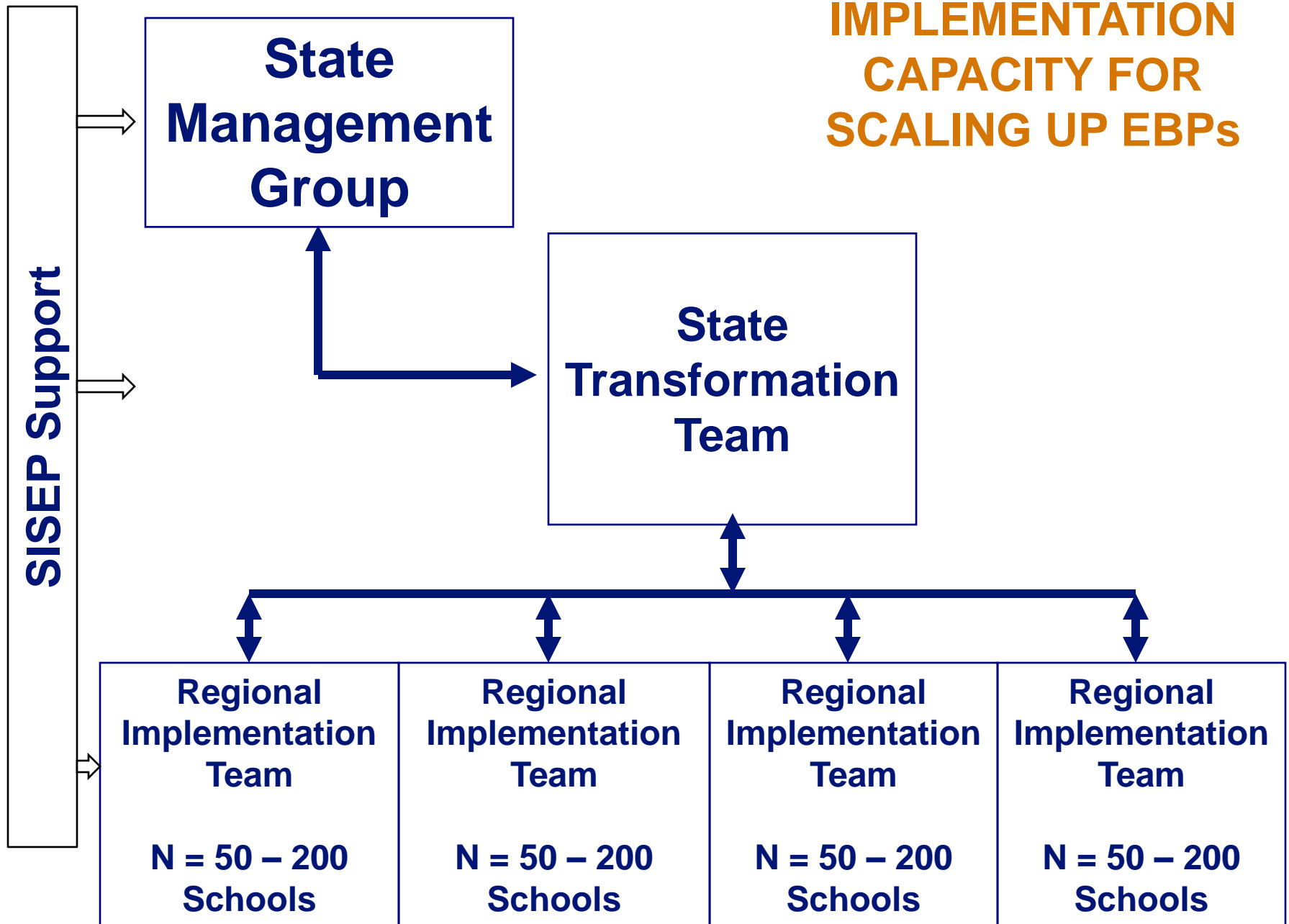
SISEP and the State Management Group meet monthly in order to do capacity development in earnest.

- **The first Regional Implementation Team will begin the implementation process in 5 – 10 schools (Transformation Zone)**
- **Repeat the process in subsequent sets of 5 – 10 schools**
- **GOAL: Maximize opportunities for RIT members to learn (CAPACITY DEV.)**

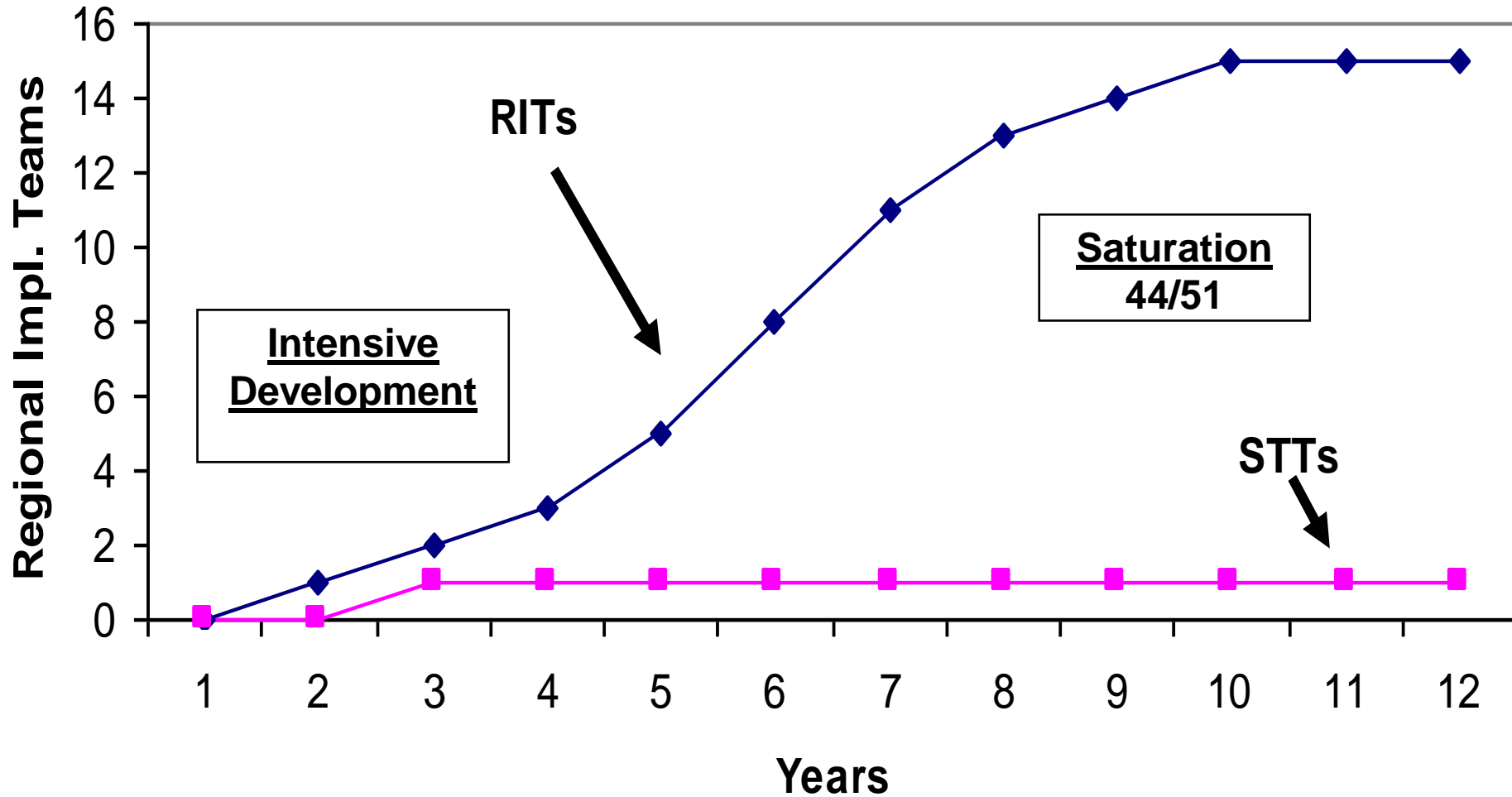
Transformation Zone



**IMPLEMENTATION
CAPACITY FOR
SCALING UP EBPs**



State Capacity Development



Scale Up

Teachers teach students

-  Develop teacher competencies (the ability to fully use EBPs)

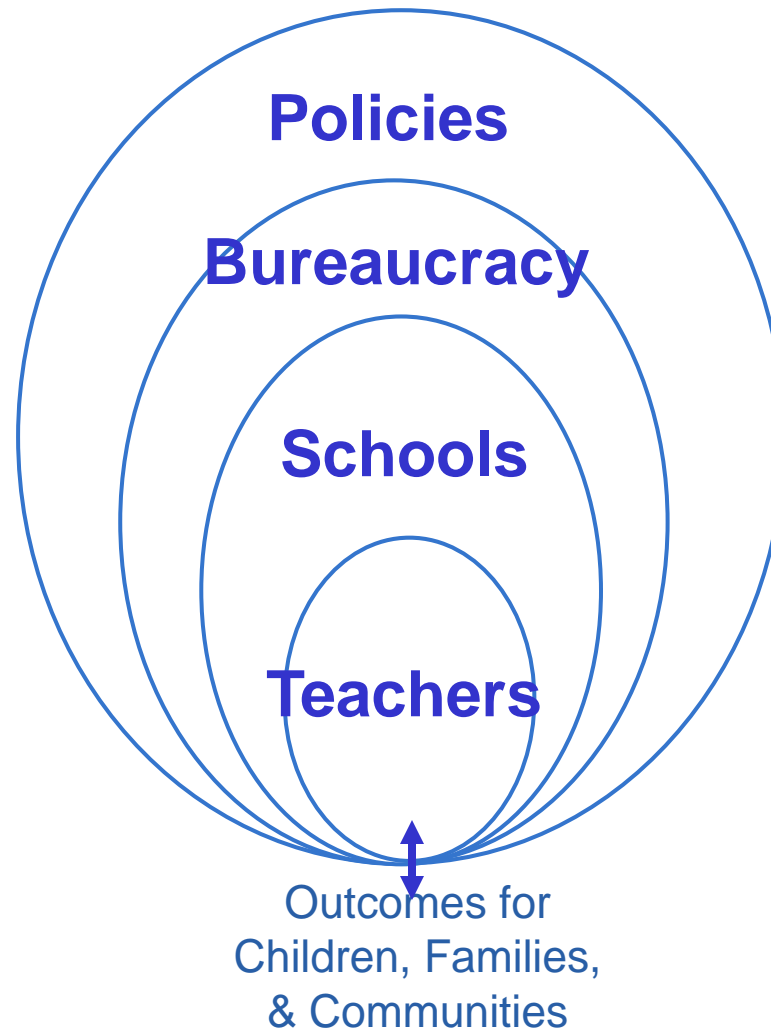
Schools support teachers

-  Change structures, roles, and functions

Systems support schools









-  Transform structures, roles, and functions

Functional Education



Thank You

We thank the following for their support

-  **Annie E. Casey Foundation (EBPs and cultural competence)**
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-  **Centers for Disease Control & Prevention (implementation research contract)**
-  **National Institute of Mental Health (research and training grants)**
-  **Juvenile Justice and Delinquency Prevention (program development and evaluation grants)**
-  **Office of Special Education Programs (Capacity Development Center contract)**
-  **Agency for Children and Families (Child Welfare Leadership Development contract)**

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**State Implementation and Scaling up of
Evidence-based Practices**

National Implementation Research Network

www.scalingup.org

<http://www.fpg.unc.edu/~nirn/default.cfm>

For More Information

Implementation Research: A Synthesis of the Literature



Fixsen, D. L., Naoom, S. F., Blase, K. A., Friedman, R. M. & Wallace, F. (2005). *Implementation Research: A Synthesis of the Literature*. Tampa, FL: University of South Florida, Louis de la Parte Florida Mental Health Institute, The National Implementation Research Network (FMHI Publication #231).

Download all or part of the monograph at:

<http://www.fpg.unc.edu/~nirn/resources/detail.cfm?resourceID=31>